

Title (en)

SEMI-REDUCED SINTERED ORE AND METHOD FOR PRODUCTION THEREOF

Title (de)

TEILREDUZIERTES GESINTERTES ERZ UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MINERAI SEMI-RÉDUIT FRITTÉ ET SA MÉTHODE DE PRODUCTION

Publication

EP 1749894 A4 20080702 (EN)

Application

EP 05743528 A 20050518

Priority

- JP 2005009504 W 20050518
- JP 2004148856 A 20040519
- JP 2004170388 A 20040608
- JP 2004203248 A 20040709
- JP 2005059191 A 20050303

Abstract (en)

[origin: EP1749894A1] An iron ore, a carbonaceous material and a CaO-based auxiliary raw material are used as raw materials for sintering. The rawmaterials for sintering are charged into a sinteringmachine to form a raw material layer. A plurality of particles for manufacturing a reduced iron, which are produced by agglomerating at least the iron ore and the carbonaceous material, form a part of the raw material layer. The raw material layer is sintered and a part of the iron ore is reduced by sintering, thereby producing the semi-reduced sinter containing metallic Fe.

IPC 8 full level

C22B 1/16 (2006.01); **C22B 1/20** (2006.01); **C22B 1/243** (2006.01); **C22B 1/245** (2006.01); **C22B 5/10** (2006.01)

CPC (source: EP)

C22B 1/20 (2013.01); **C22B 1/243** (2013.01); **C22B 1/245** (2013.01); **C22B 5/10** (2013.01)

Citation (search report)

- [XA] JP H04210432 A 19920731 - NIPPON STEEL CORP
- [E] JP 2005194544 A 20050721 - JFE STEEL KK
- [XA] DATABASE WPI Week 198950, Derwent World Patents Index; AN 1989-369692, XP002481192
- See references of WO 2005111248A1

Cited by

CN105308194A; EP3020834A4; CN102010986A; US11479832B2; EP3447157A4; EP3778938A1; US11608543B2

Designated contracting state (EPC)

DE

DOCDB simple family (publication)

EP 1749894 A1 20070207; EP 1749894 A4 20080702; WO 2005111248 A1 20051124

DOCDB simple family (application)

EP 05743528 A 20050518; JP 2005009504 W 20050518